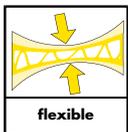


# Polyflex M

## Two part latex modified cementitious waterproofing coating

### CHARACTERISTICS

- ▶ Excellent performance and flexible in nature
- ▶ Good adhesion to most surfaces
- ▶ Non toxic, therefore suitable for potable water.
- ▶ Resistant to carbon dioxide and chloride ion diffusion. (Forms a film that provides an anti carbonation coating over concrete. A 1mm coating of Polyflex M provides anti carbonation cover which is equivalent to over 75 cm of concrete).
- ▶ Can resist up to 3 Bars of pressure.
- ▶ Unlike conventional coatings which require 7– 28 days cure of concrete, Polyflex M can be applied to 24 hours old concrete, there by giving immediate protection to the concrete.
- ▶ Allows the substrate to breathe.



flexible



non toxic



adhesion

### DESCRIPTION

Polyflex M is a two part modified acrylic cementitious coating, mixed at site for easy application. It cures to form a tough flexible coating with excellent waterproofing properties.

### FIELDS OF APPLICATION

- pile head waterproofing.
- to provide protection for concrete against carbonation and chloride attack.
- water proof coating for roofs, concrete water tanks, lift well, inspection pits, swimming pools, spillways, bathrooms, kitchens and other wet areas.
- waterproof lining for water retaining structures
- as a backing to tiles, mosaic and marble to prevent water absorption.
- general construction waterproofing.

### APPLICATION INSTRUCTIONS

#### Surface preparation

The surface must be sound and free of oil, grease, dust and other unwanted residual material which will affect the



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bonding. The surface to be treated should be pre-saturated with water prior to application but remove any standing water prior to application.

#### Mixing

Polyflex M is supplied in two parts, and pre measured. On site mixing is needed. Pour the liquid into a suitably sized container and slowly add the powder to the liquid and mix using a slow speed drill (300-400rpm) fitted with a suitable paddle until a lump free creamy consistency is obtained. Do not mix more material than that can be used within 45 minutes. Never add water to loosen the material at any stage.

#### Application

Apply the first coat using sufficient material at a rate of 1.75kg/m<sup>2</sup> to completely cover the holes, cracks etc. A soft bristled brush or roller can be employed for this. Once the first coat is dry, apply a second coat in order to achieve the required thickness at an average rate of 1.75kg/m<sup>2</sup> per coat. After the application of the first coat and whilst the coating is still wet, embed a glass fibre mesh (CL 252 or similar materials) at all corners and other joints for added reinforcement. The second coat shall be applied after the first coat dries off completely (6-8 hours @25°C, 50%

rh). For general protection against carbonation and alkali attacks, the coating can be applied in minimum 1mm thickness.

## PROTECTION

Adequate protection should be provided to Polyflex M applied areas for the following exposures:

- area subjected to high mechanical abrasion
- area in submerged condition where the water head is > 1m

## COVERAGE

1.75 kg per m<sup>2</sup> per coat for 1mm Dry Film Thickness.

## CLEANING

Clean all tools with water immediately after use. Hardened materials can be removed mechanically only.

## STORAGE & SHELF LIFE

Store in a cool, dry place and keep away from all sources of heat and sunlight. In tropical climates, store in air condition rooms. The shelf life is up to 12 months in un-opened conditions and if stored as per recommendations. Excessive exposure to sunlight, humidity and UV will result in the deterioration of the quality of the product and reduce its shelf life.

## HEALTH AND SAFETY

As with all construction chemical products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

## SUPPLY

|                       |        |           |
|-----------------------|--------|-----------|
| Polyflex M [25kg kit] | Part A | 20kg. bag |
|                       | Part B | 5L pail   |
| Polyflex M [20kg kit] | Part A | 15kg. bag |
|                       | Part B | 5L pail   |

## TECHNICAL SPECIFICATION

| PROPERTIES                                 | VALUES    | TEST STANDARDS |
|--|-----------|----------------|
| Color                                      | Grey      | -              |
| Mixed density, [g/cc]                      | 1.75±0.05 | ASTM D 1475    |
| Pot life, [minutes]                        | 45        | -              |
| Elongation at break, [%]                   | > 10      | ASTM D 412     |
| Adhesion to concrete, [N/mm <sup>2</sup> ] | > 1       | ASTM D 4541    |
| Water absorption, [%]                      | < 2       | -              |
| Water potability                           | Non Toxic | BS 6920        |
| Drying time, [hours]                       | 2-3       | -              |
| Full cure, [days]                          | 7         | -              |
| Application temperature, [°C]              | 5 to 45   | -              |
| Service temperature, [°C]                  | -5 to 70  | -              |

All Values given are subject to 5-10% tolerance

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.